

AMENDMENTS TO THE CLAIMS

1. (Currently amended) ~~A process~~ Process for preparing C(O)F_2 which comprises photooxidizing CHClF_2 or CHF_3 with oxygen and wherein at least some of the radiation is in the range from 280 nm to about 750 nm.
2. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ the irradiation is undertaken in the absence of chlorine and the incident light ~~which may~~ have wavelengths including $< 280 \text{ nm}$, or in that the irradiation is undertaken in the presence of elemental chlorine with light of a wavelength of $\geq 280 \text{ nm}$, in which case not more than 0.50 mol of elemental chlorine is present in the reaction mixture per mole of CHClF_2 or CHF_3 .
3. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ 0.05 to 0.20 mol of elemental chlorine is present per mole of CHClF_2 or CHF_3 .
4. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ the irradiation is carried out at a temperature of 20 to 300°C .
5. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ the irradiation is carried out at a pressure of 1 to 11 bar (abs.).
6. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ the reactants are present in gaseous form.
7. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ the reaction is carried out continuously.
8. (Currently amended) ~~Process~~ The process according to Claim 7, ~~characterized in that wherein~~ the average residence time in the reactor is between 0.1 and 3 minutes.
9. (Currently amended) ~~Process~~ The process according to Claim 1, ~~characterized in that wherein~~ CHClF_2 is used as the starting compound.

10. (Currently amended) ~~Process~~ The process according to Claim 1, characterized in that wherein the irradiation is carried out at a temperature of 30 to 300°C.
11. (Currently amended) ~~Process~~ The process according to Claim 1, characterized in that wherein the irradiation is carried out at a temperature of 50 to 90°C.
12. (New) A process for preparing $C(O)F_2$ which comprises photooxidizing $CHClF_2$ or CHF_3 with oxygen using
- (1) a irradiation lamp which emits only UV light of a wavelength greater than ≥ 280 nm,
 - (2) a fluorescent tube or
 - (3) a high pressure mercury lamp.
13. (New) The process as claimed in claim 12, wherein said irradiation lamp is used.
14. (New) The process as claimed in claim 12, wherein said fluorescent tube is used.
15. (New) The process as claimed in claim 12, wherein said mercury lamp is used.
16. (New) The process according to Claim 12, wherein 0.05 to 0.20 mol of elemental chlorine is present per mole of $CHClF_2$ or CHF_3 .
17. (Currently amended) Process according to Claim 13, wherein the irradiation is carried out at a temperature of 20 to 300°C and at a pressure of 1 to 11 bar (abs.).
18. (New) The process according to Claim 12, wherein the reactants are present in gaseous form.

19. (Original) The process according to Claim 12, wherein the reaction is carried out continuously.
20. (New) The process according to Claim 12, wherein CHClF_2 is used as the starting compound.
21. (New) The process according to claim 20, wherein CHClF_2 is reacted with oxygen in the presence of elemental chlorine wherein an irradiation lamp is used which emits only light of a wavelength above or at 280 nm.
22. (New) The process according to claim 20, wherein CHClF_2 is reacted with oxygen in the presence of elemental chlorine wherein frequencies below 280 nm are masked out of the light emitted.